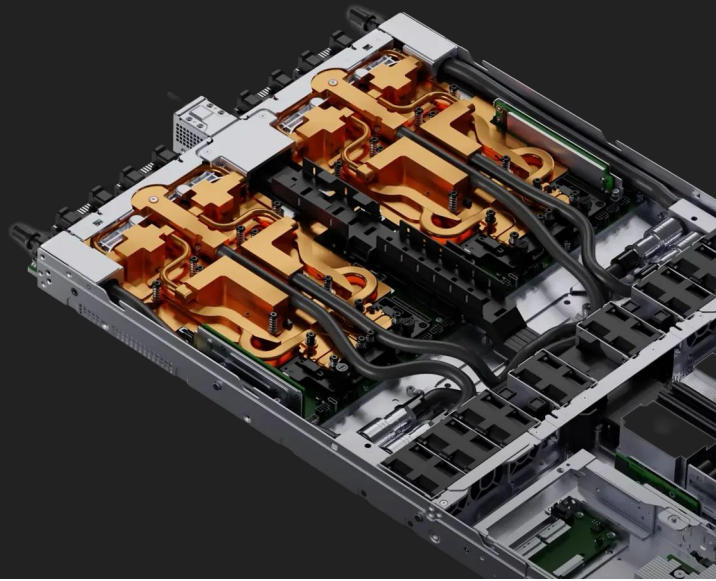


# Instrumental for Compute Infrastructure

Visual AI and synchronized models enforce a single build standard across factories – improving FPY and skipping the bone pile



**PCB to tray assembly (L6-L10) is a bottleneck.** Instrumental’s Visual AI and synchronized models surface assembly defects that will fail functional test, enabling quick fixes on the line that improve FPY and keep units out of the bone pile.

## OUTCOMES

### Increased FPY and throughput

Quick-fix defects on the line instead of in repair

### Reduced rework and retest loops

Discover recurring root causes so they can be eliminated

### One standard of quality across all factory sites

Visual AI models synchronize across SKUs, lines, and factories to enforce a single engineering standard

## PROVEN IMPACT FROM SIMPLE TO TOP-OF-THE-LINE AI SERVER TRAYS

+20% points FPY improvement

AI COMPUTE LEADER, L6-L10 NPI/MP

Intercepting issues within 5 units

HPC MANUFACTURER, L6-L10 NPI

+3% points FPY + bonepile reduction

NETWORKING SECURITY BRAND, L6-L10 MP

### How FPY Improvement Happens

Identify and quick-fix units with assembly defects that will fail test – increasing FPY

Every unit quick-fixed saves:

- 10 hours of test capacity
- Repair cost (and damage)
- Accelerates revenue by days

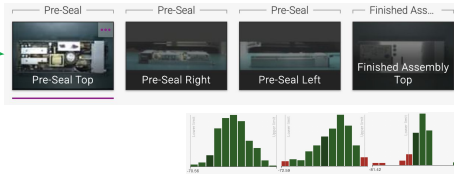
**30X ROI**

<2 weeks to first value

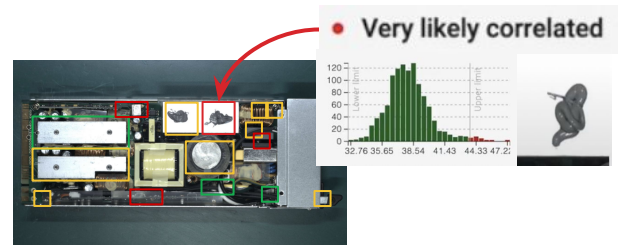


## HOW IT WORKS

Automatically ingest & visualize image and test data into a secure, cloud platform



Als automatically intercept units, suggest new visual tests, and pinpoint root cause



## INSTRUMENTAL'S UNIQUE CAPABILITIES

### Discover and intercept novel issues

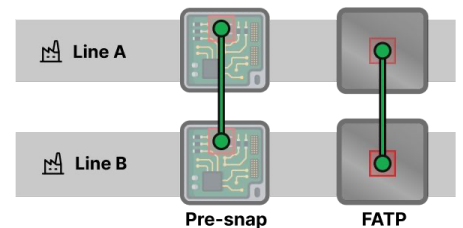
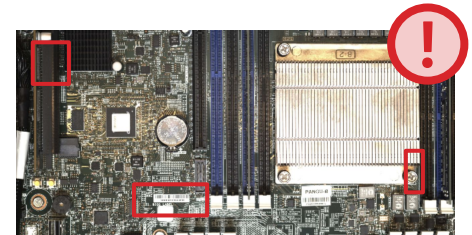
Visual AI identifies assembly failure modes to rapidly build a comprehensive visual test suite to intercept units likely to fail functional test.

### Set up visual AI models for new SKUs in minutes

Purpose-built for high-mix. Synchronize AI models across SKUs and do SKU-level analysis.

### Model replication and synchronization across fleet

Replicate and synchronize tests, discoveries, and learnings across lines, factories, and between suppliers to enforce a single engineering standard



## HIGHLIGHTS

### Provide feedback, not labels

Visual AI designed for engineering and operations teams that continuously learns from production data

### Camera-agnostic

Use existing cameras or deploy integrated Instrumental stations

### Fast global deployment

Go live in 3-6 weeks – 3 in the US/China, 6 globally

### Flexible data transfer

Upload via MES, CSV, API, or S3 buckets– get value from historical or live data

### Direct integration

Reduces cycle time impact and fits into existing workflows

### White-glove setup & support

Option to have experts do accelerated setup for impact in less than two weeks

BOOK A DEMO

Improve FPY within two weeks

